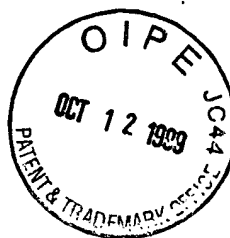


SEQUENCE LISTING



<110> Vrjic, Marina
Eggeling, Lothar
Sahm, Hermann

<120> PROCESS FOR THE MICROBIAL PRODUCTION OF AMINO ACIDS BY
BOOSTED ACTIVITY OF EXPORT CARRIERS

<130> fj122 oct99

<140> 09/105,117

<141> 1998-06-17

<150> PCT/DE96/02485

<151> 1996-12-18

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<151> 1995-12-22

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Gln Ala Ala Arg Lys Met Val Leu Leu Gln Ala Glu Thr Lys Ala Gln
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Leu Ser Gly Arg Leu Ala Glu Ile Pro Leu Thr Ile Ala Ile Ala Ala
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Trp Gly Gly Ala Thr Leu Thr Leu Arg Leu Glu Asp Glu Ala His Thr
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His Leu Ala Ile Ala Thr Pro Ser Leu Arg Asp Ala Tyr Met Val Asp
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Gly Lys Leu Asp Trp Ala Ala Met Pro Val Leu Arg Phe Gly Pro Lys
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| Leu | Leu | Leu | Ser | Ile | Gly | Pro | Gln | Ala | Val | Leu | Val | Ile | Lys | Gln | Gly |
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| Ile | Lys | Arg | Glu | Gly | Leu | Ile | Ala | Val | Leu | Leu | Val | Cys | Leu | Ile | Ser |
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| Asp | Val | Phe | Leu | Phe | Ile | Ala | Gly | Thr | Leu | Gly | Val | Asp | Leu | Leu | Ser |
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| Ala | Ala | Ala | Pro | Ile | Val | Leu | Asp | Ile | Met | Arg | Trp | Gly | Gly | Ile | Ala |
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| Tyr | Leu | Leu | Trp | Phe | Ala | Val | Met | Ala | Ala | Lys | Asp | Ala | Met | Thr | Asn |
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| Lys | Val | Glu | Ala | Pro | Gln | Ile | Ile | Glu | Glu | Thr | Glu | Pro | Thr | Val | Pro |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Asp | Asp | Thr | Pro | Leu | Gly | Gly | Ser | Ala | Val | Ala | Thr | Asp | Thr | Arg | Ala |
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| Arg | Val | Arg | Val | Glu | Val | Ser | Val | Asp | Lys | Gln | Arg | Val | Trp | Val | Lys |
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| Leu | Asp | Ala | Phe | Val | Phe | Ile | Gly | Gly | Val | Gly | Ala | Gln | Tyr | Gly | Asp |
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| Trp | Phe | Pro | Leu | Val | Gly | Phe | Gly | Ala | Ala | Ala | Leu | Ser | Arg | Pro | Leu |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Ser | Ser | Pro | Lys | Val | Trp | Arg | Trp | Ile | Asn | Val | Val | Val | Ala | Val | Val |

210

215

220

Met Thr Ala Leu Ala Ile Lys Leu Met Leu Met Gly
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